

Genomic DNA from *Aspergillus fumigatus*, Strain B5859

Catalog No. NR-50384

Product Description:

Genomic DNA was extracted from a preparation of *Aspergillus fumigatus*, strain B5859, which was obtained in 1998 from human sputum-tracheal suction in California, USA. The fungal preparation used for extraction of genomic DNA was produced from a culture of NR-35304 lot 63007452. Genomic DNA was extracted using proprietary technology and is provided in 10 mM Tris-HCl, 1 mM EDTA, pH ~ 8.

Lot: 70054091

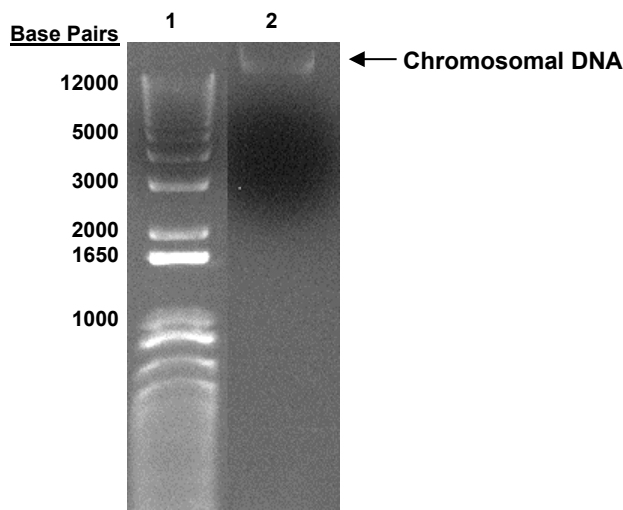
Manufacturing Date: 02MAR2023

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TEST	SPECIFICATIONS	RESULTS
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen® Measurement	0.2 µg to 3.5 µg in 20 to 200 µL/vial	2.7 µg in 68 µL/vial (43 µg/mL)
Amount per Vial	0.2 µg to 3.5 µg	2.7 µg
Genotypic Analysis Sequencing of partial 18S ribosomal RNA (rRNA) gene, internal transcribed spacer (ITS) 1, 5.8S rRNA gene, ITS 2, partial 26S rRNA (~ 560 base pairs) Sequencing of 28S rRNA gene (~ 590 base pairs)	≥ 99% sequence identity to <i>A. fumigatus</i> type strain (GenBank: HQ026746.1) ≥ 99% sequence identity to <i>A. fumigatus</i> type strain (GenBank: KU729178.1)	100% sequence identity to <i>A. fumigatus</i> type strain (GenBank: HQ026746.1) 100% sequence identity to <i>A. fumigatus</i> type strain (GenBank: KU729178.1)
Functional Activity by PCR Amplification¹ ITS 1, 5.8S rRNA gene, ITS 2	~ 1200 base pair amplicon	~ 1200 base pair amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 2.1	2.1
Fungal Inactivation 10% of total DNA yield inoculated on Potato Dextrose agar and incubated for 14 days at 25°C in an aerobic atmosphere	No viable organisms detected	No viable organisms detected

¹Primer sequences and conditions for PCR are available upon request.

Figure 1: Agarose Gel Electrophoresis



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: 200 ng of NR-50384

/Sonia Bjorum Brower/

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14 MAY 2026

Technical Manager or designee, ATCC Federal Solutions

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